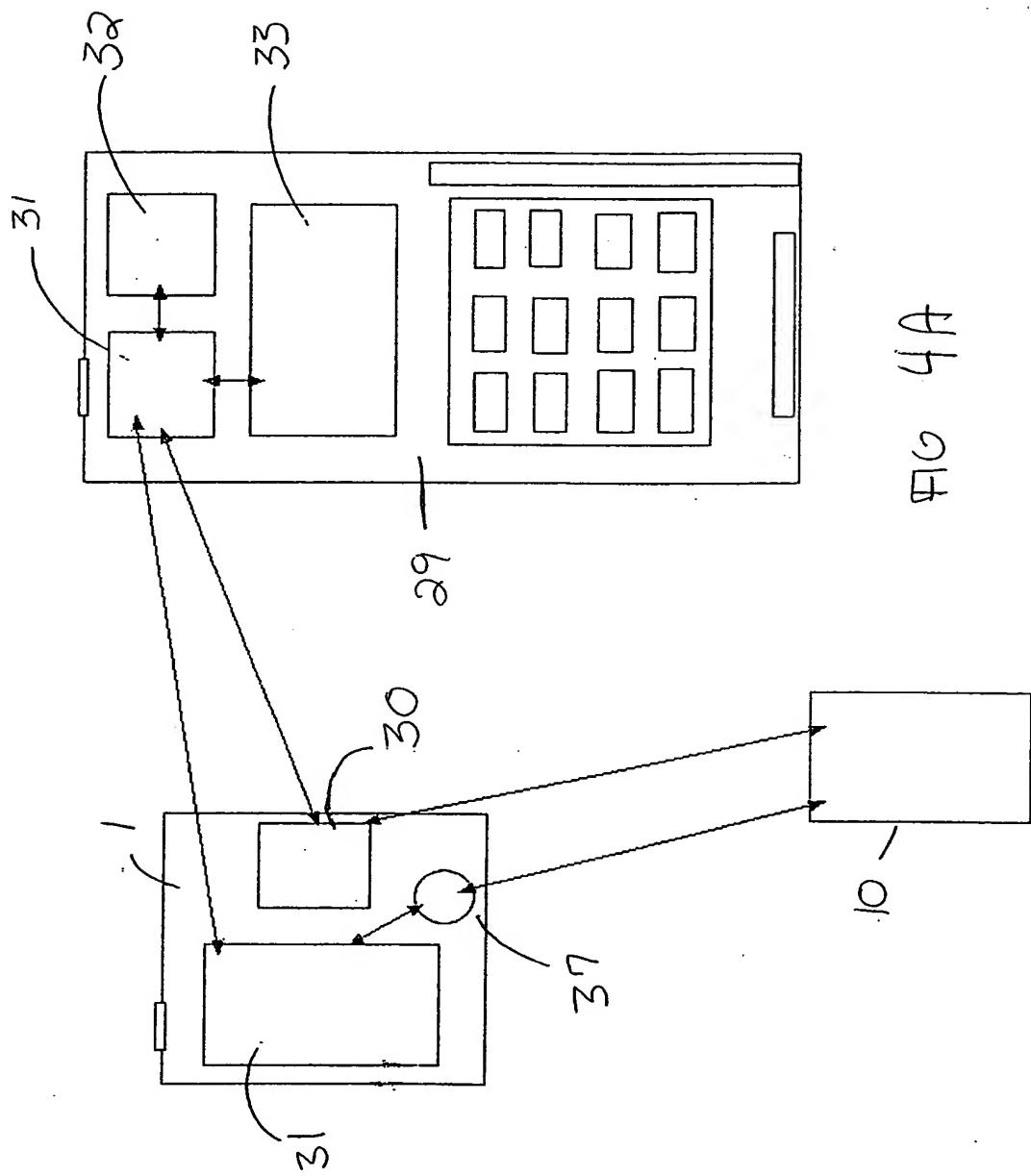
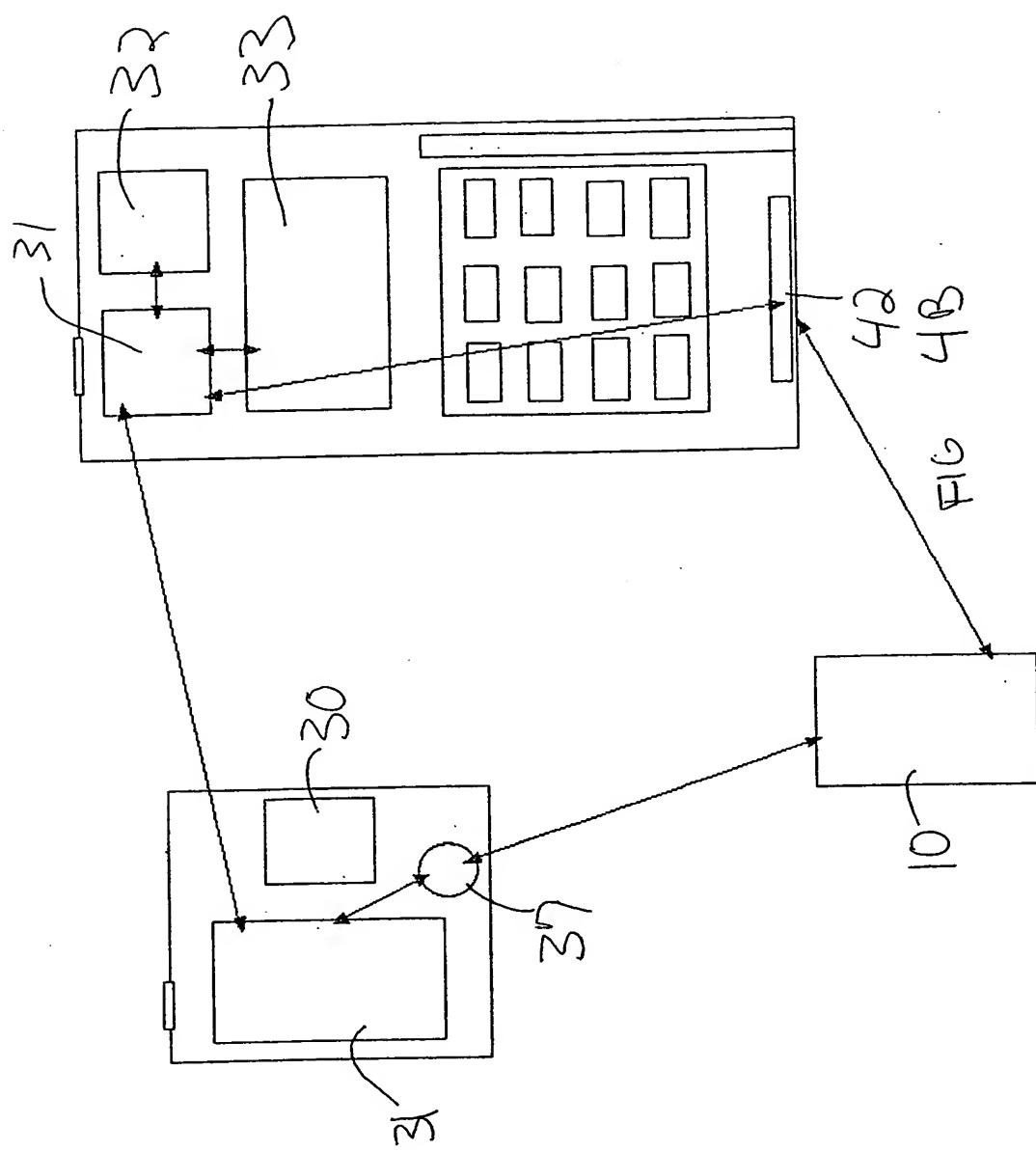


FIG 4A





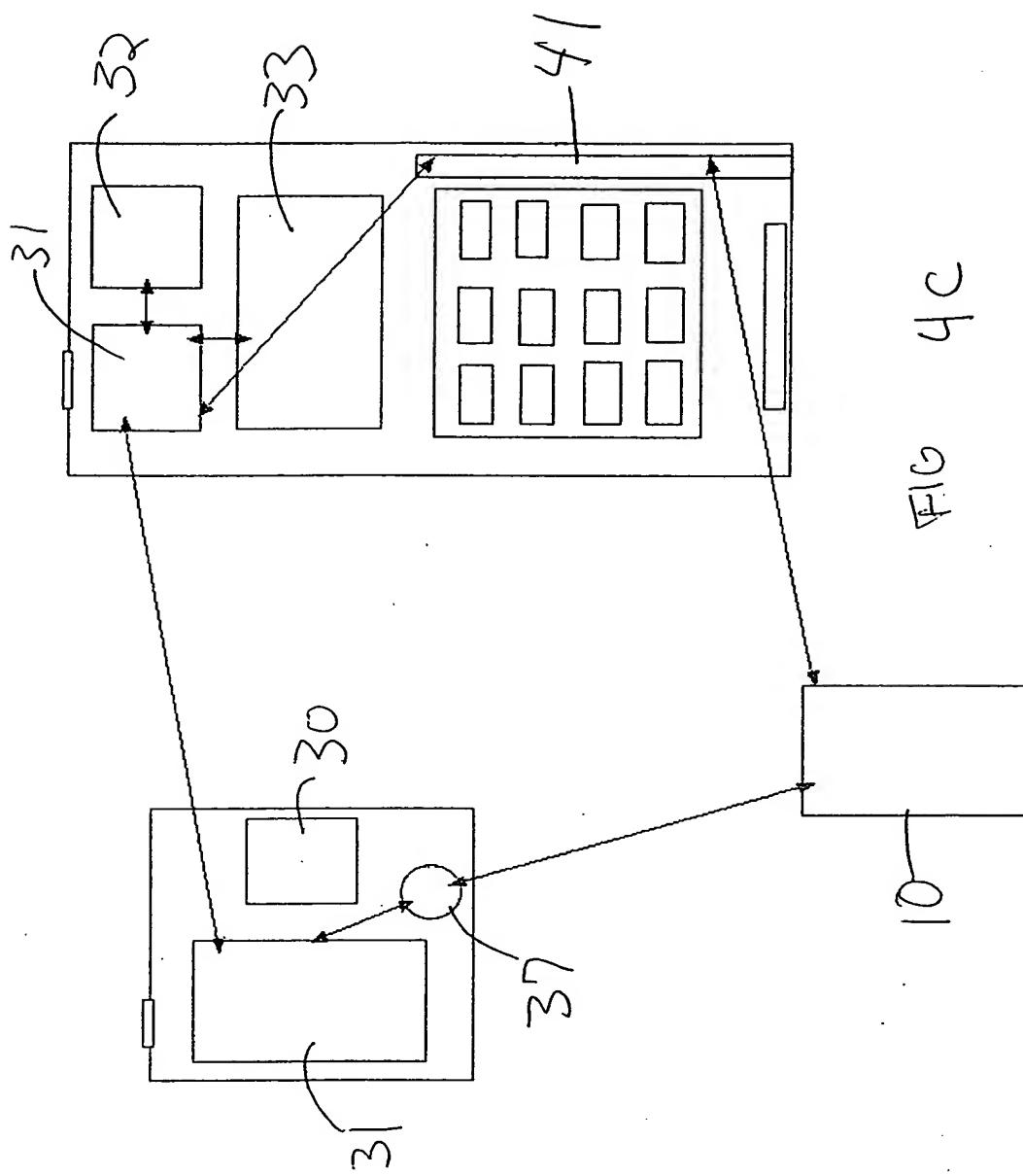
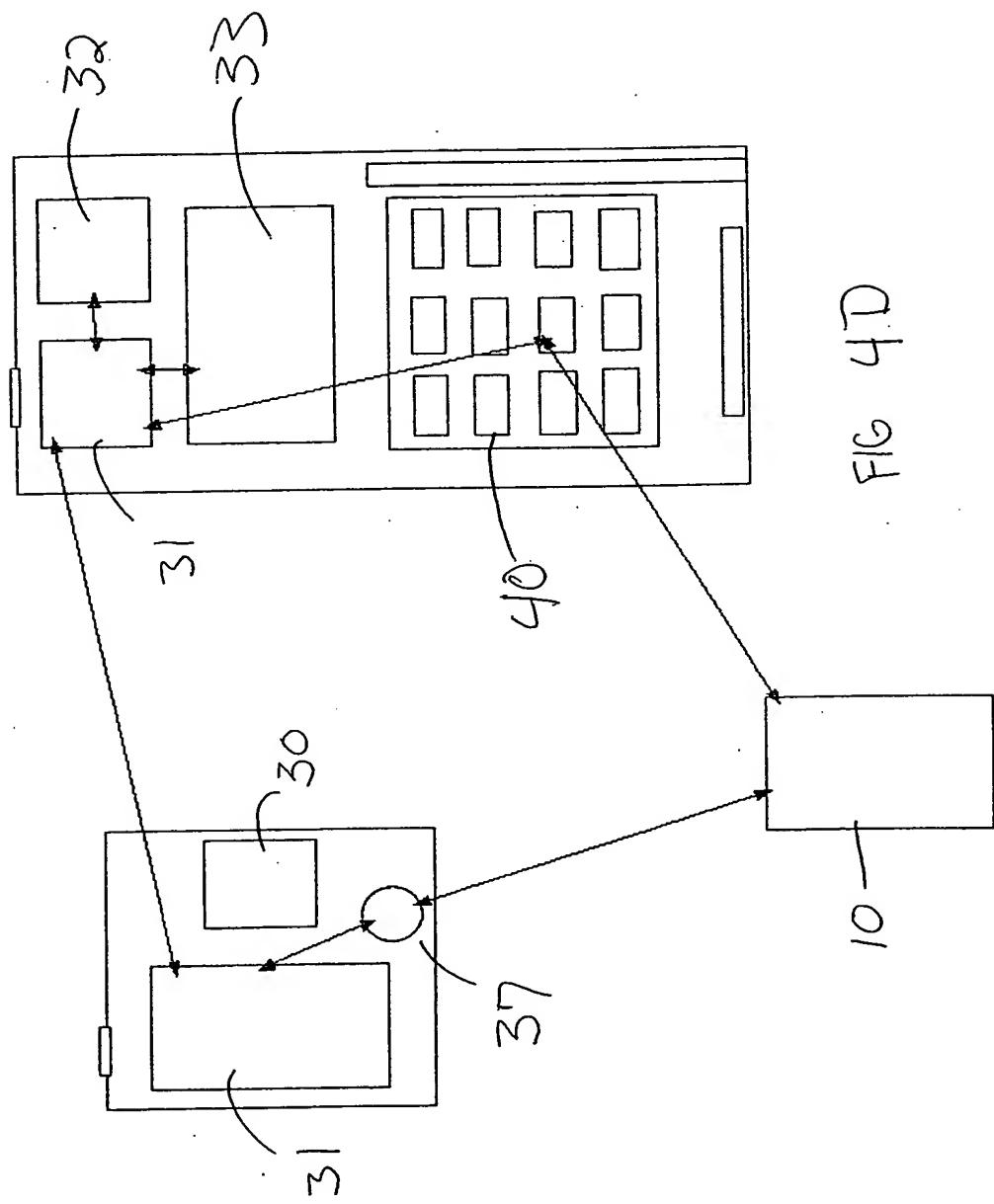
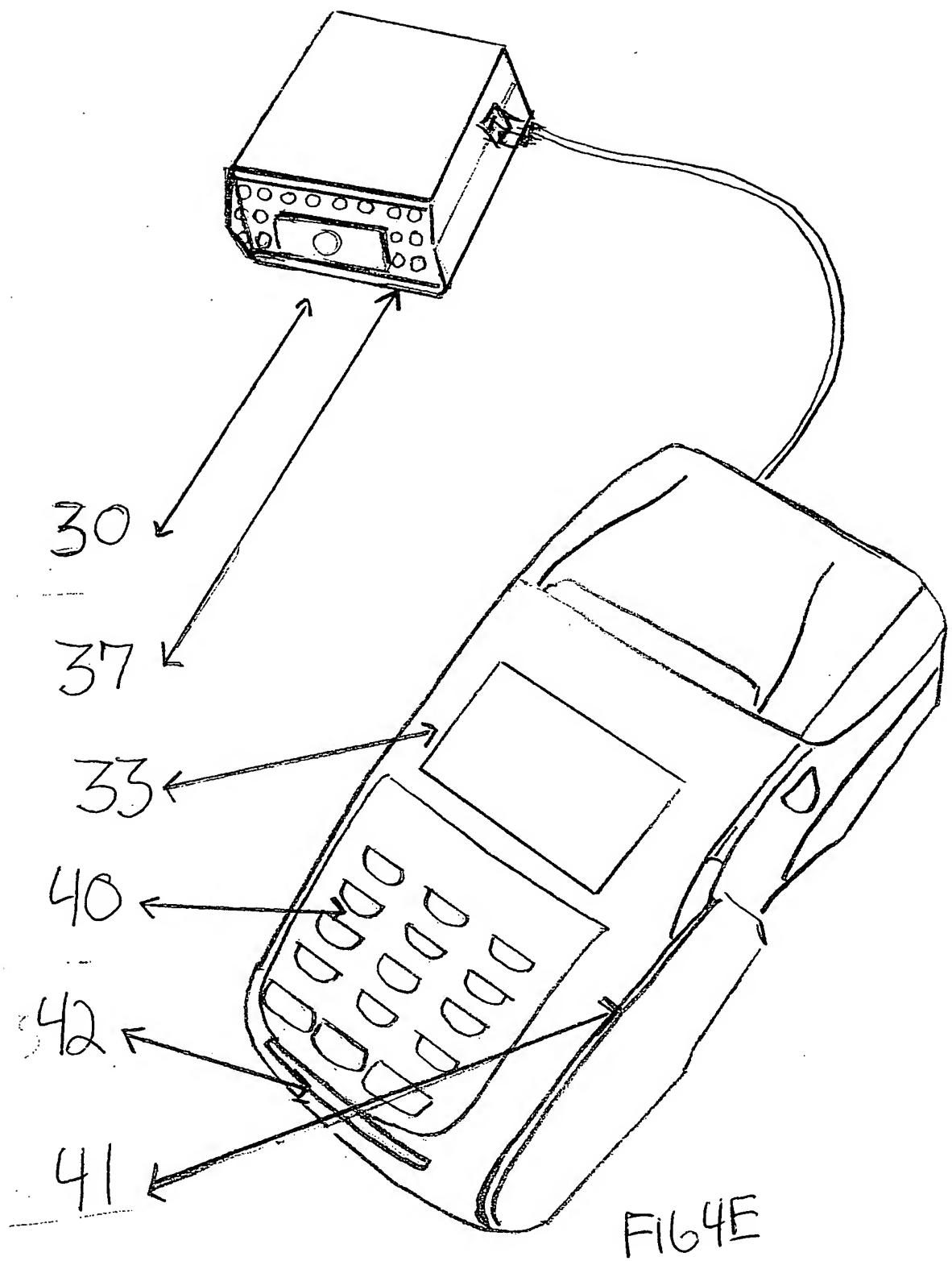


FIG 4D





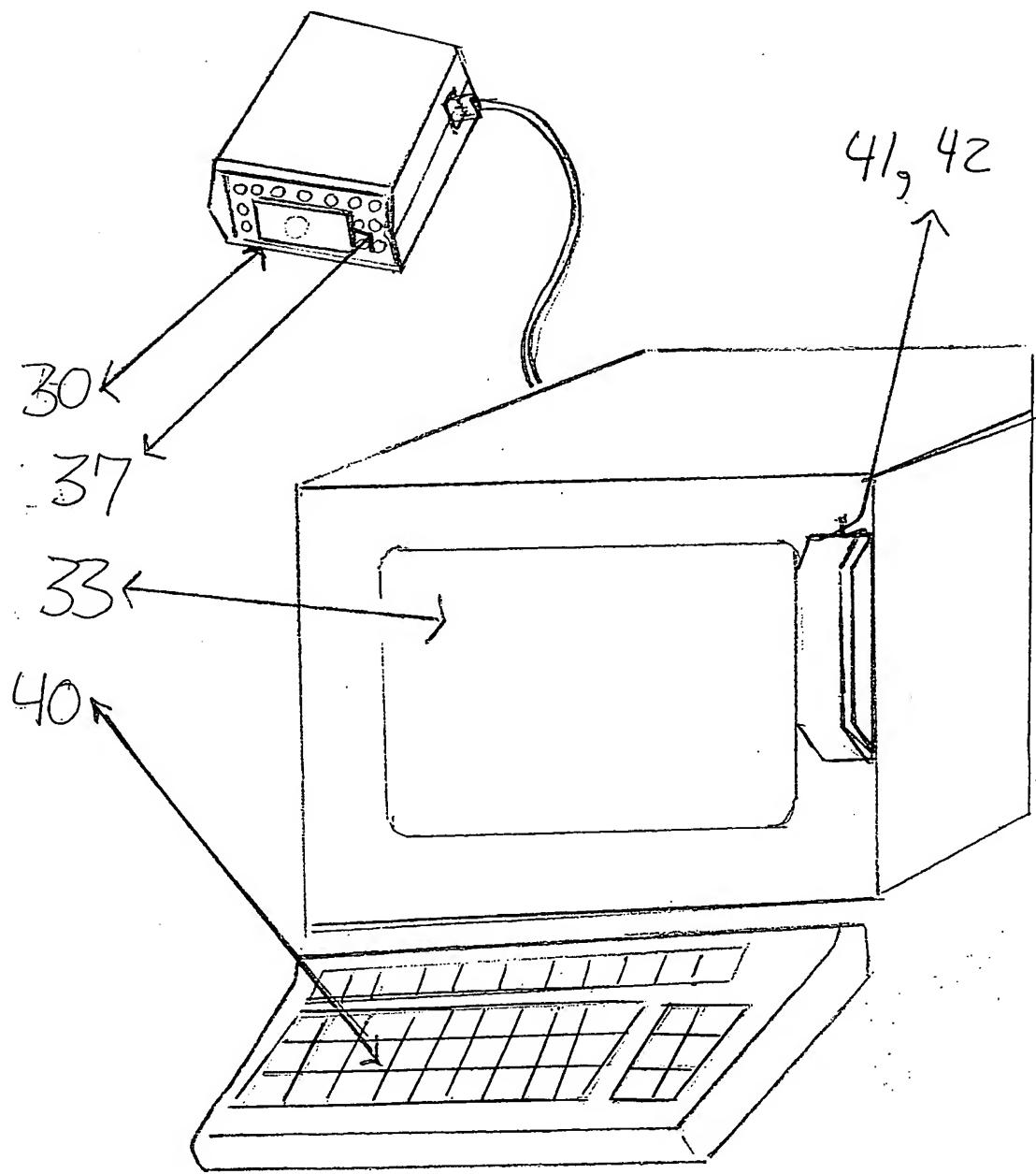


FIG 4F

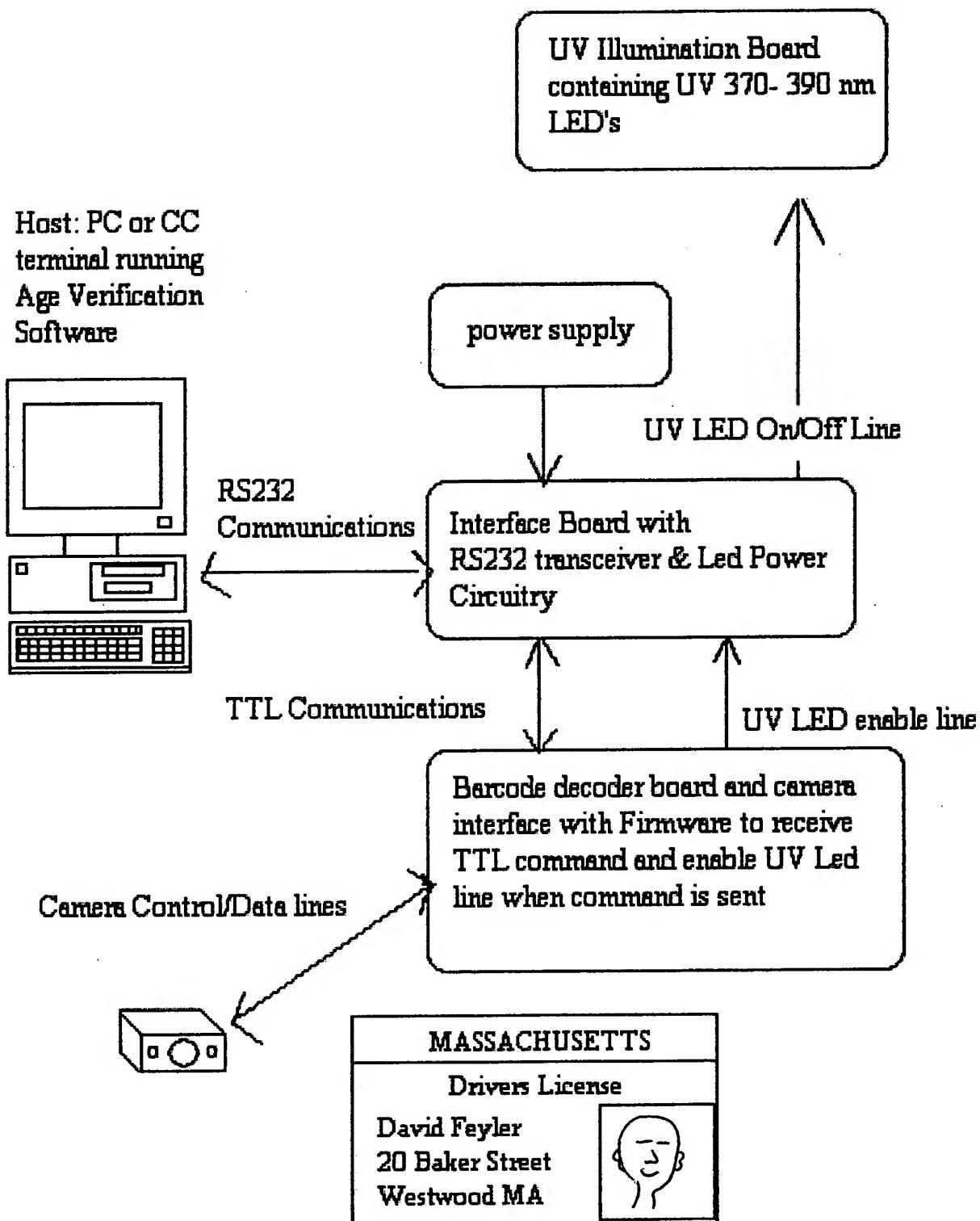


FIG8

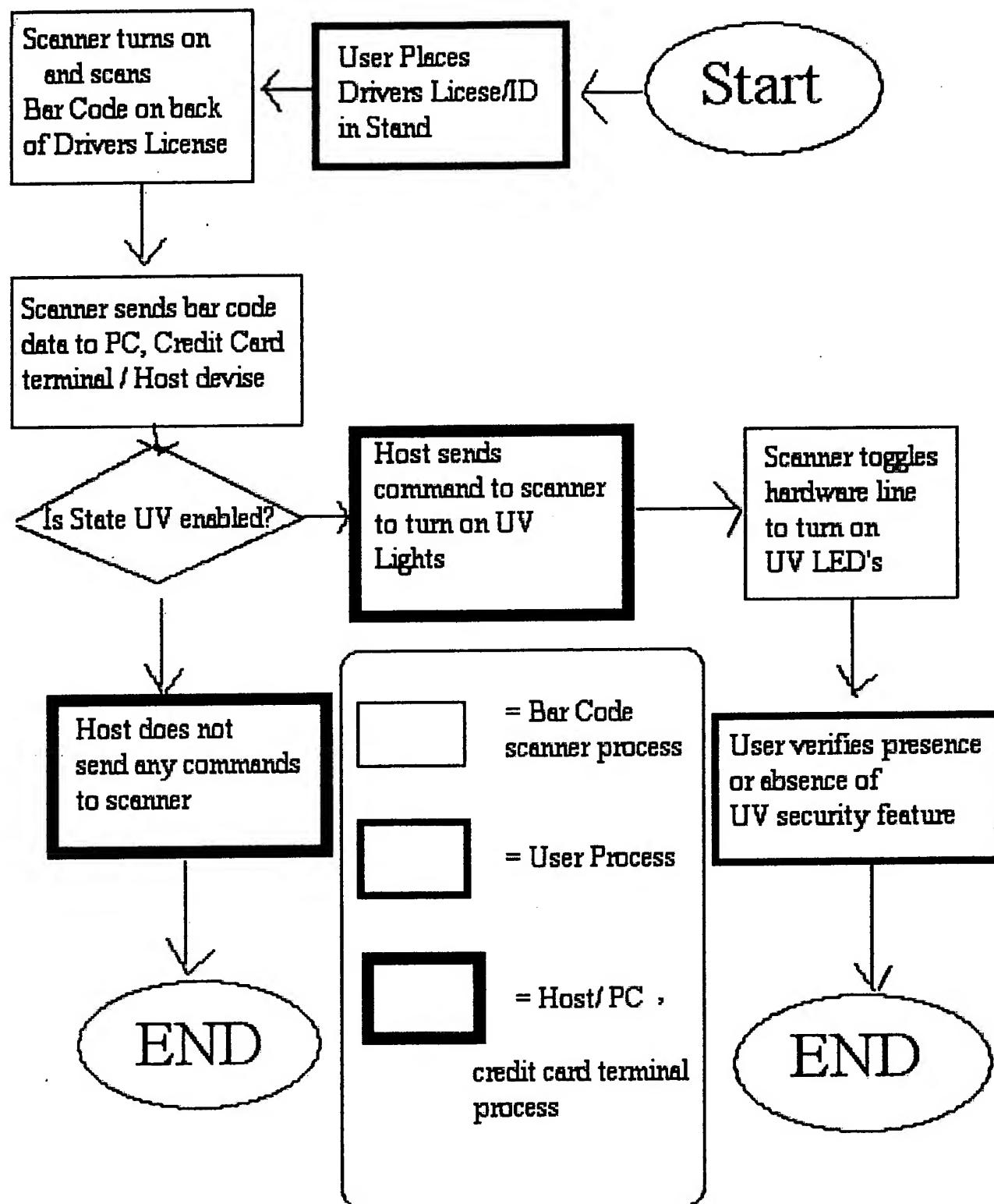


FIG 9

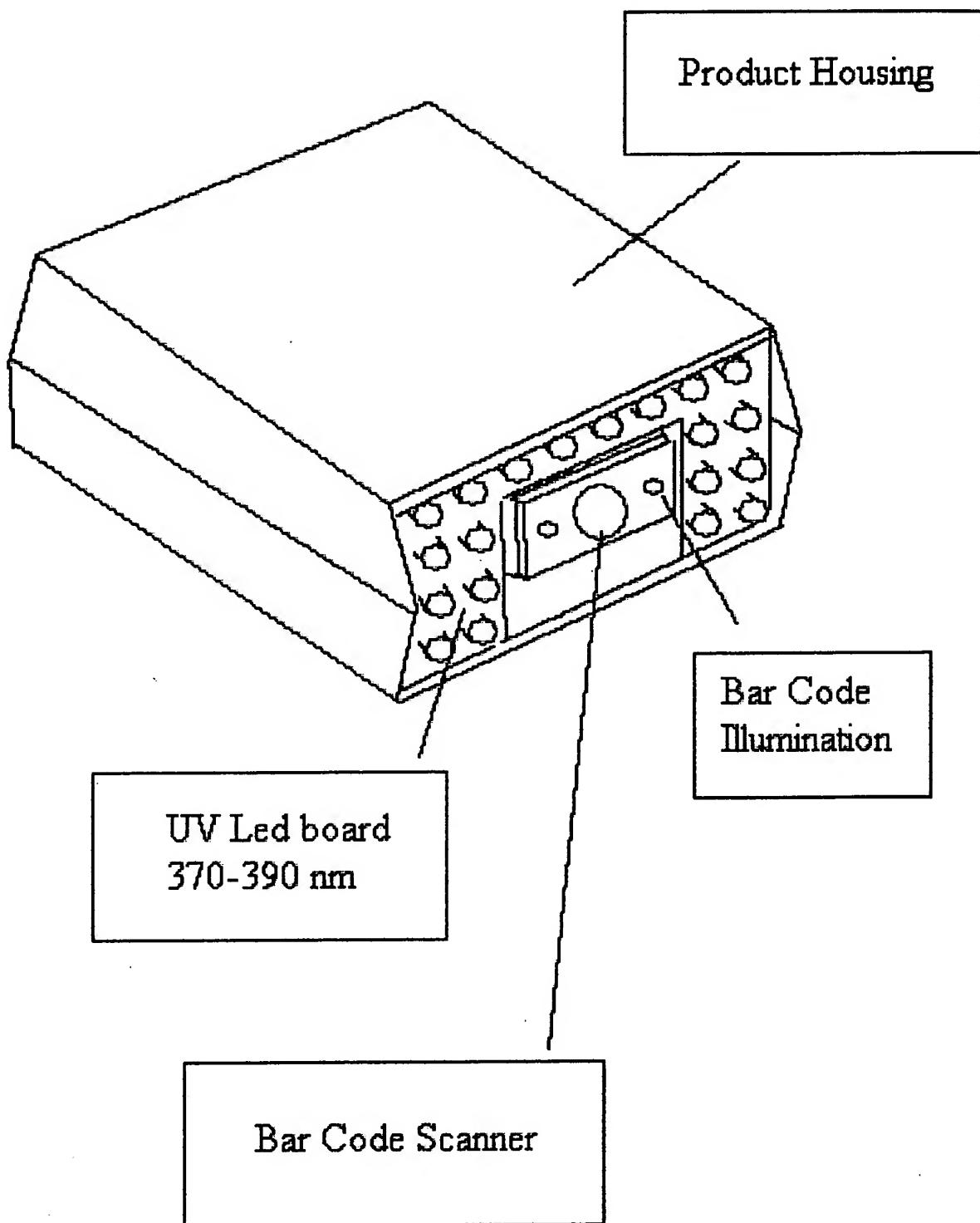


FIG 10

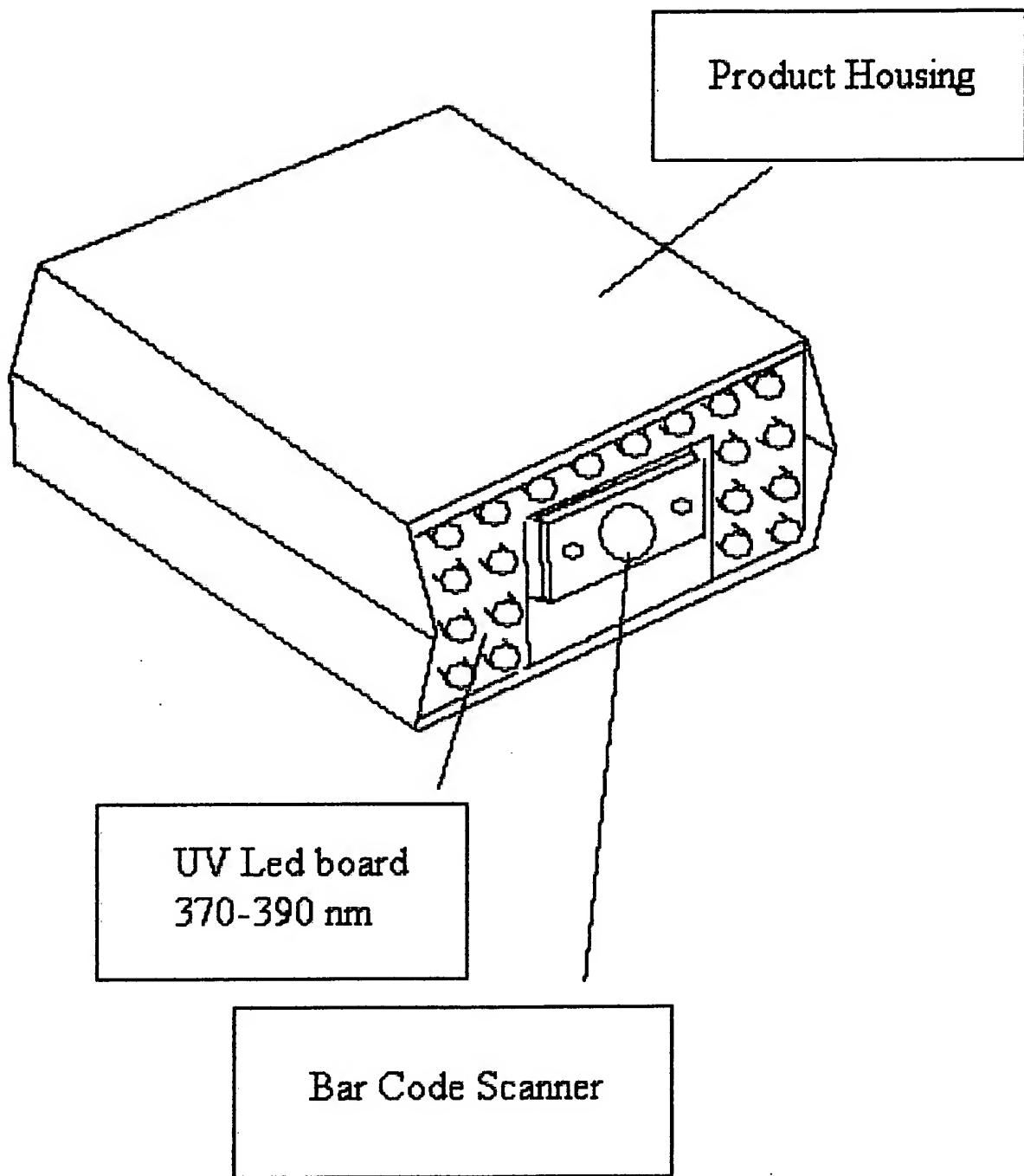
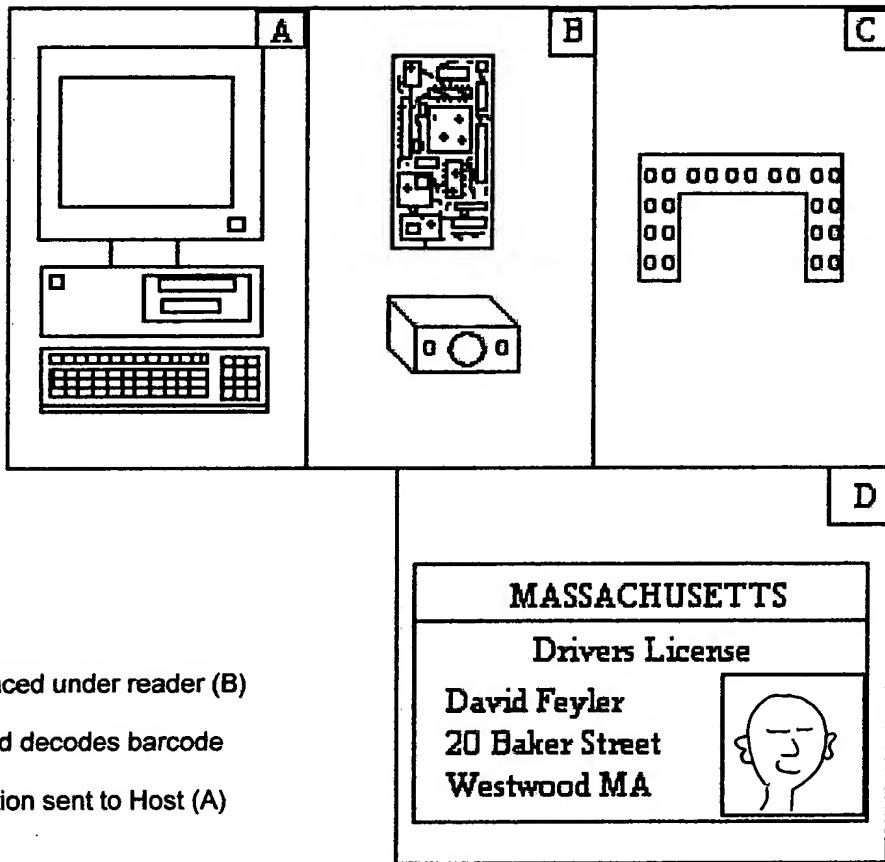


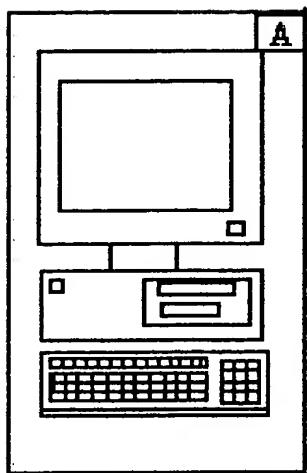
FIG 11



Software Process:

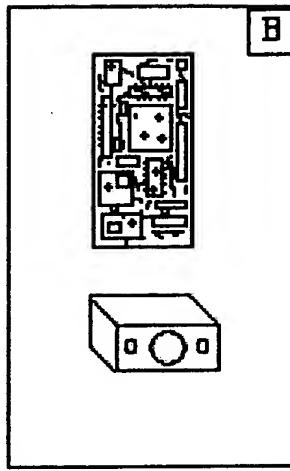
1. License (D) is placed under reader (B)
2. Reader scans and decodes barcode
3. Barcode information sent to Host (A)
4. Host determines:
 - a. Age
 - b. If license is expired
 - c. State of Issue
 - d. Any and all information that is on pdf417 or mag strip
5. If the license is expired or person is underage then the host will notify the user.
6. If Age and Expiration appear to be valid, the host will use the State of Issue to determine whether or not a UV inspection is necessary (ie. Does that particular State have a UV security marking?)
7. If the State does have a security marking, the host then sends a command to the scanner to turn on the UV Illumination (C). The command will also dictate the duration for the UV illumination to be on.

FIG 14



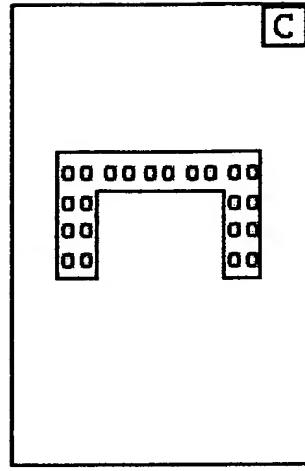
Off the shelf

PC,POS, Credit card terminal with RS-232 comm port
Available from:
Verifone, Dell, IBM, Toshiba, etc....



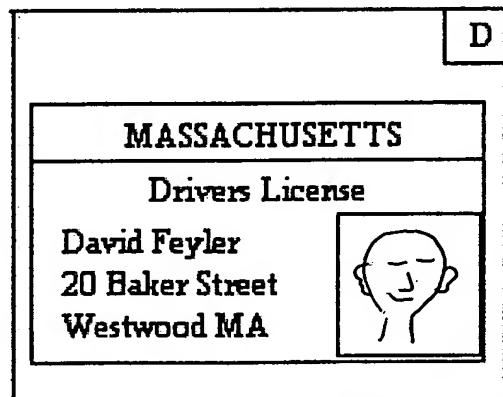
Off the shelf

2D Barcode Imager with decoder board.
Available from:
HHP-Model IT4250, 4080
Symbol Model 4200,
and others



Off the shelf

UV LED board
Available from:
Jedak Technologies and others

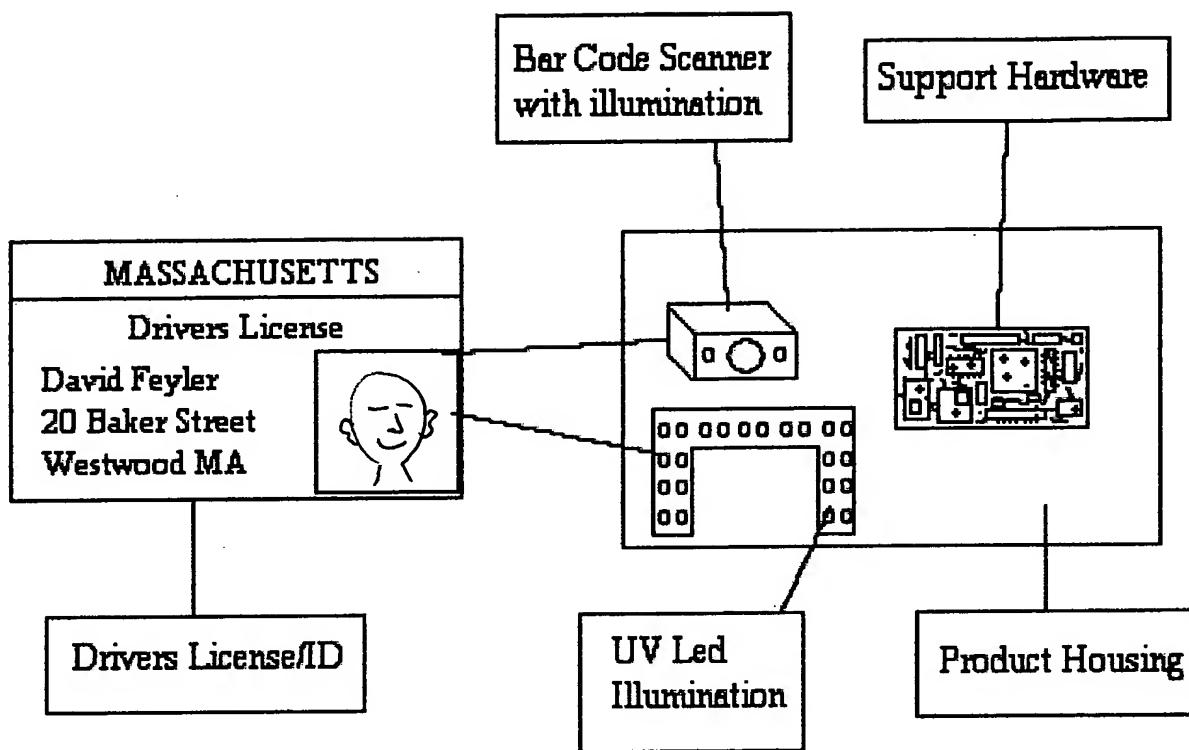


Driver's License , Employee ID,
Military ID, Government ID,
Security document, etc..

System Overview:

- D. License with barcode or mag strip and UV coating
- C. UV Illumination board - consists of UV LED's or other UV light source. turns on via command or Low/hi signal from decoder board (B).
- B. 2D Barcode Imager with decoder board - reads barcode on license (D) and turns on external illumination (C) via TTL output (Trigger line above) Sends barcode information to PC via RS232 communications.
- A. PC or Credit Card Terminal with RS232 input (other communication protocols acceptable).

FIG 15



System Overview

1. Barcode Scanner used to read barcode information on Drivers License
2. UV illumination used to illuminate hidden security marks (e.g. holograms)
as part of authentication.
3. Barcode Scanner and UV illumination may or may not be in the same product housing
Example: UV Led may be mounted to point towards front of license when scanner is reading
back of the license.

FIG 16